



FIG. 5A

HU	KVEQAVETEPEPELRRQQTEWQSGQRWELALGRFWDYLRLWVQTLSEQVQEE 50											
Ba	P	P	DV	A	P							
CynM	P	P	T		A G	P						
Rt	-----	G	L	VTD	LPG	D	P	Q	N			D
Mo	-----	G		VTD	L	N	P	Q	N			D
GP	-----	DV	V	V	EPAV		P		S			D
Rb	-----	Q	V	VPE	AR KA	P				S	D	
Cow	DM	GELGP	-	LTT	PRGKDS	P	Q					D
Dog*	Q	EL	P	-----	AG	T	P	A	A			D G
Seal	EL	E	P	-----	AG	A	P		A			D
HU	LLSSQVTQELRALMDETMKELKAYKSELEEQLTPVAEETRARLSKELQAA 100											
Ba	P		TT							S		
CynM	P		TT							S		
Rt	Q		TV	ED	T V	K		G			A	V T
Mo	Q		T	ED	T V	K		G			G	V
GP	N		TL	I ED	V D	A	KE	G	D K		A	
Rb			TM	E	V			S M Q			V	
Cow	NT	I	T	E	V	E	G	G M Q	Q	V		
Dog	V	NT	T		V	A	D	G MTS	Q	VA		
Seal	V	N	TT	E	I	RA		G M S	Q	VA		
HU	QARLGADMEDVRGRLVQYRGEVQAMLGQSTEELRVRLASHLRKLRKRLLR 150											
Ba			S		S					A		
CynM			S		S					A		
Rt			L N	G	N NT			S	ST	M	M	
Mo			L N	G	N HT			A	ST	M	M	
GP			E N	S	S		S	A T	P M		Q	
Rb	E		CN	A	A			A FS				
Cow	S		LC	A	S			A M		P		
Dog	R		N	T	L		S	A F	M		V	
Seal	RS		T	S				A F	M		V	
HU	DADDLQKRLAVYQAGAREGAERGLSAIRERLGPLVEQGRVRAATVGSLAG 200											
Ba					V					S		
CynM					V					S		
Rt			K	Q	V			Q T	NL AG A			
Mo	E		K		V			Q T	NL AG A			
GP	I E	M	K	Q	V		S I	LQ	----- TS			
Rb	E	M	G		V		L	L	ST			
Cow	K		S	S	F		QS		LST			
Dog	E R	K	V	SV S	W L	A E N K A T						
Seal	E	R	V	SV T	W L	A T H K DA T						



FIG. 5B

HU	QPLQERAQAWGERLRARMEEMGSRTDRLDEVKEQVAEVRAKLEEQAQQI 250													
Ba		L												
CynM		L												
Rt	RD	LSD	I	G	L	V	NQA	E	R	ME	S	M	T	
Mo	RD	F	D	I	G	L	V	NQA	E	R	HME	S	M	T
GP		QM	G	L	KV	QA		E	R	ME	V	V	---	
Rb	R		GHL	V	A		E	R	E	V	V		A M	
Cow	L	E	RQK	HG	L	V	V	AQ	KIRQ	LE	H	V	GN M	
Dog	L	D	QQ	GQL	S	A	GH	E	MR	IQ	V	M	D	
Seal	R	VN	L	QQ	G	L	V	A SH	R	ME	Q	M	N M	
HU	RLQAEAFQARLKSWFEPLVEDMQRQWAGLVEKVQAAVGTSAAPVPSDNH 299													
Ba	S										A	T		
CynM	S										A	T	I	
Rt		I		I	G				N	M	I	S	A	NSIASTTVPLENQ
Mo		I		G		I		H	N	M	I	S	A	NPIIT VAQ-ENQ
GP	----	G				MM	R		N	IQ	V	A	TS-A	QEP
Rb									L	MPSK	PAAAPIENQ			
Cow				R					L	LRP	PTSP	E		
Dog	QK				L			D		A	IPTSKPVEEP			
Seal	Q			G				V		PTTP	VETK			